

Title (en)

DIE AND METHOD OF MANUFACTURING SAME

Title (de)

CHIP UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATRICE ET PROCÉDÉ DE FABRICATION DE CELLE-CI

Publication

EP 2418305 B1 20160928 (EN)

Application

EP 10761432 A 20100406

Priority

- JP 2010002518 W 20100406
- JP 2009095267 A 20090409

Abstract (en)

[origin: EP2418305A1] A mold of the present invention includes: a base 12 made of glass or plastic; an inorganic underlayer 14 provided on a surface of the base 12; a buffer layer 16 provided on the inorganic underlayer 14, the buffer layer 16 containing aluminum; an aluminum layer 18a provided on a surface of the buffer layer 16; and a porous alumina layer 20 provided on a surface of the aluminum layer 18a. The porous alumina layer 20 has a plurality of recessed portions 22 whose two-dimensional size viewed in a direction normal to the surface is not less than 10 nm and less than 500 nm. The mold of the present invention has excellent adhesion between the aluminum layer and the base.

IPC 8 full level

B29C 33/38 (2006.01); **B29C 33/42** (2006.01); **B29C 33/56** (2006.01); **B29C 59/02** (2006.01); **C25D 11/04** (2006.01); **C25D 11/12** (2006.01); **C25D 11/24** (2006.01); **G02B 1/11** (2015.01); **G02B 1/118** (2015.01)

CPC (source: EP US)

B29C 33/38 (2013.01 - EP US); **B29C 33/3814** (2013.01 - EP US); **B29C 33/424** (2013.01 - EP US); **B29C 33/56** (2013.01 - EP US); **C25D 11/12** (2013.01 - EP US); **C25D 11/24** (2013.01 - EP US); **G02B 1/118** (2013.01 - EP US)

Cited by

EP2554717A4; EP2426237A4; US8545708B2; US9556532B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

EP 2418305 A1 20120215; **EP 2418305 A4 20130102**; **EP 2418305 B1 20160928**; BR PI1010314 A2 20160315; CN 102227519 A 20111026; CN 102227519 B 20140702; JP 4648995 B2 20110309; JP WO2010116728 A1 20121018; RU 2482221 C1 20130520; US 2012018613 A1 20120126; US 8580135 B2 20131112; WO 2010116728 A1 20101014

DOCDB simple family (application)

EP 10761432 A 20100406; BR PI1010314 A 20100406; CN 201080003284 A 20100406; JP 2010002518 W 20100406; JP 2010542475 A 20100406; RU 20111145304 A 20100406; US 201013263459 A 20100406